

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
13 January 2005 (13.01.2005)

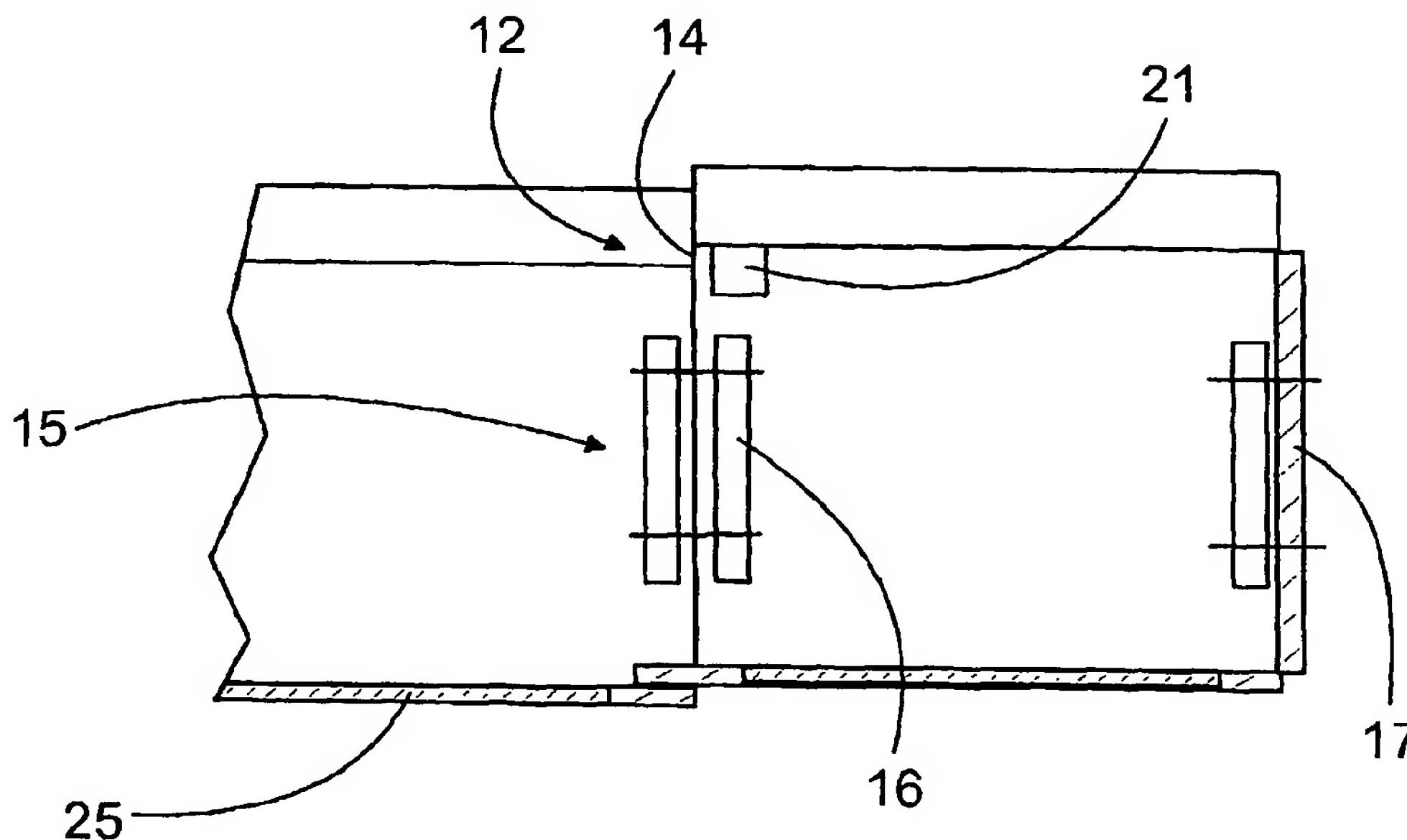
PCT

(10) International Publication Number  
**WO 2005/003453 A1**

- (51) International Patent Classification<sup>7</sup>: D21G 9/00, D21F 7/00, B65H 20/14
- (21) International Application Number: PCT/FI2004/050110
- (22) International Filing Date: 1 July 2004 (01.07.2004)
- (25) Filing Language: Finnish
- (26) Publication Language: English
- (30) Priority Data:  
20035122 7 July 2003 (07.07.2003) FI  
20035133 14 August 2003 (14.08.2003) FI
- (71) Applicant (for all designated States except US): METSO PAPER, INC. [FI/FI]; Fabianinkatu 9 A, FI-00130 Helsinki (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): AHVENNIEMI, Vesa [FI/FI]; Heinätie 13 A, FI-00730 Helsinki (FI). FAGERSTRÖM, Bo [FI/FI]; Metsätorpankuja 4, FI-02940 Espoo (FI). KASULA, Hannu [FI/FI]; Anttatie 29, FI-04220 Kerava (FI). KINNUNEN, Jorma [FI/FI]; Rantatie 10, FI-04220 Kerava (FI).
- [FI/FI]; Johan Sederholmintie 2 B 22, FI-00810 Helsinki (FI). LAINE, Seppo [FI/FI]; Jääskentie 10, FI-02140 Espoo (FI). WIDELL, Kenneth [FI/FI]; Lönnrotinkatu 23 B 27, FI-00120 Helsinki (FI). LIPPONEN, Juha [FI/FI]; Röynänkatu 2, FI-04400 Järvenpää (FI).
- (74) Agent: KESPAT OY; P.O. Box 601, FI-40101 Jyväskylä (FI).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: EQUIPMENT FOR LEADING A WEB THREADING TAIL IN A PAPER MACHINE



WO 2005/003453 A1

(57) Abstract: The invention relates to equipment for leading a web threading tail in a paper machine. The equipment includes at least two sequential surfaces (11) in the direction of travel of the web threading tail (10), between which a nozzle (12) is arranged in order to form a directed air blast and thus to transport the web threading tail (10). The equipment includes an element (13), in which an exhaust zone (20) is arranged in the surface (11) before the nozzle (12) in the direction of travel of the web threading tail (10), for leading the air away from the element (13) between the web threading tail (10) and the surface (11).



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

— *with amended claims*

Date of publication of the amended claims: 3 March 2005

**Published:**

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*